

**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2018

Reclamation District No. 0349 Sutter Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	1.59	11/08/2018 11/08/2018	David Julian

LM Start		Rating **	A	Issue No.	3
LM End		Issue Type +	Ma	Location *	
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Emergency Supplies & Equipment			°	°
				°	°
DWR ID	DWR_RD0349_01_f_2014_3				
Comment Code					
Inspector Comment					
District does have some supplies including sand, sand bags, and stakes.					

No Photos

LM Start		Rating **	A	Issue No.	4
LM End		Issue Type +	Ma	Location *	
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Operations & Maintenance Manuals			°	°
				°	°
DWR ID	DWR_RD0349_01_f_2014_4				
Comment Code					
Inspector Comment					
RD 349 has O&M Manual on hand.					

No Photos

LM Start		Rating **	M	Issue No.	14
LM End		Issue Type +	Ma	Location *	
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Flood Preparedness & Training			°	°
				°	°
DWR ID	DWR_RD0349_01_f_2014_14				
Comment Code					
Inspector Comment					
LMA has not taken flood fight training in the past couple of years.					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	1.59	11/08/2018 11/08/2018	David Julian

LM Start	0.01	Rating **	A/W	Issue No.	9
LM End	0.10	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2017 USACE Erosion Survey, DRAFT			38.326996 °	38.325798 °
				-121.576557 °	-121.577027 °
DWR ID	DWR_RD0349_01_f_2018_9				
Comment Code					
Inspector Comment					
2017 Site ID: SAC 33.9 R					
Status: Critical					
2017 Field Notes: New erosion pocket. Tree roots propped up with junk. Tree likely to fall and house to come tumbling after. Upgraded to critical.					
Site History: 2015 - Erosion observed at the toe.					
2018: Vegetation was too thick to observe completely but did look like tree was likely to fall soon.					

No Photos

LM Start	0.22	Rating **	M	Issue No.	21
LM End	0.26	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.324052°	38.323492°
				-121.577778°	-121.577952°
DWR ID	DWR_RD0349_01_f_2018_21				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					
Remove vegetation all the way down to land side toe					

Photo 1 of 1 : FA_2018_RD0349_204_21_20181109_00029.jpg



Vegetation looking downstream on the land side slope (November 2018).

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Unit No. 01 Sacramento River	Right	1.59	11/08/2018 11/08/2018	David Julian

LM Start	0.47	Rating **	M	Issue No.	22
LM End	1.44	Issue Type +	Ma	Location *	WS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Vegetation		38.320520°	38.307013°	
			-121.578605°	-121.575518°	
DWR ID	DWR_RD0349_01_f_2017_22				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					

No Photos

LM Start	0.56	Rating **	M	Issue No.	28
LM End	0.56	Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Vegetation		38.319327°	38.319327°	
			-121.578822°	-121.578822°	
DWR ID	DWR_RD0349_01_f_2018_28				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					

No Photos

LM Start	0.61	Rating **	C	Issue No.	19
LM End	0.61	Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Trim / Thin Trees		38.318596°	38.318596°	
			-121.578979°	-121.578979°	
DWR ID	DWR_RD0349_01_s_2018_19				
Comment Code					
T1 : Trim trees to at least five feet above ground level.					
Inspector Comment					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	1.59	11/08/2018 11/08/2018	David Julian

LM Start	0.62	Rating **	M	Issue No.	30
LM End	0.62	Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Vegetation		38.318392 °	38.318392 °	
			-121.578987 °	-121.578987 °	
DWR ID	DWR_RD0349_01_f_2018_30				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					

No Photos

LM Start	0.73	Rating **	C	Issue No.	18
LM End	1.06	Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Trim / Thin Trees		38.316821 °	38.311992 °	
			-121.579161 °	-121.578460 °	
DWR ID	DWR_RD0349_01_f_2017_18				
Comment Code					
T1 : Trim trees to at least five feet above ground level.					
Inspector Comment					

No Photos

LM Start	0.89	Rating **	M	Issue No.	38
LM End	0.89	Issue Type +	Ma	Location *	WS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Trim / Thin Trees		38.314548 °	38.314548 °	
			-121.579098 °	-121.579098 °	
DWR ID	DWR_RD0349_01_f_2018_38				
Comment Code					
T1 : Trim trees to at least five feet above ground level.					
Inspector Comment					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	1.59	11/08/2018 11/08/2018	David Julian

LM Start	0.92	Rating **	M	Issue No.	37
LM End	0.92	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.314080 °	38.314080 °
				-121.579002 °	-121.579002 °
DWR ID	DWR_RD0349_01_f_2018_37				
Comment Code					
T1 : Trim trees to at least five feet above ground level.					
Inspector Comment					

No Photos

LM Start	0.97	Rating **	U	Issue No.	35
LM End	0.97	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.313380 °	38.313380 °
				-121.578860 °	-121.578860 °
DWR ID	DWR_RD0349_01_f_2018_35				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					
Remove vegetation at land side toe					

Photo 1 of 1 : FA_2018_RD0349_204_35_20181109_00030.jpg



View of vegetation on the land side toe (November 2018).

*** Location**

LS : Land Side N/A : Not Applicable
WS : Water Side
CR : Crown

**** Rating**

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U : Unacceptable A/W : Acceptable but Monitor & Maintain

+ Issue Type

Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	1.59	11/08/2018 11/08/2018	David Julian

LM Start	1.00	Rating **	M	Issue No.	15							
LM End	1.06	Issue Type +	Ma	Location *								
Category	Supplemental		GPS Latitude/Longitude									
			Start	End								
Item	2017 Storm Damage		38.312911 °	38.312131 °								
			-121.578528 °	-121.578292 °								
DWR ID	DWR_RD0349_01_f_2017_15											
Comment Code												
Inspector Comment												
Levee Evaluation Comments Description: District Station 52+92 to 55+88, Sec. 06, T. 5 N. R. 4 E., M.D.M. Approximately 296 linear-feet of eroded area exists along the waterside levee slope of the Sacramento River (Unit 1). Erosion commences at approximately 3/4 of the way down the slope from the crown and extends into the rip rap. Some rip rap has been pulled off in this section. Site ID No: 318 Site Designation: LMA-145 Repair Type: Erosion Rating: Area of Concern Field Date: 7/28/2017 Notes: slope too steep, vegetation too thick for clear inspection, no direct visual of damage												

Photo 1 of 1 : FA_2018_RD0349_204_15_20180925_00003.jpg



Waterside erosion at LM 1.02.

LM Start	1.10	Rating **	C	Issue No.	26							
LM End	1.16	Issue Type +	Ma	Location *	LS							
Category	Earthen Levee		GPS Latitude/Longitude									
			Start	End								
Item	Trim / Thin Trees		38.311432 °	38.310689 °								
			-121.578460 °	-121.577875 °								
DWR ID	DWR_RD0349_01_f_2017_26											
Comment Code												
T1 : Trim trees to at least five feet above ground level.												
Inspector Comment												

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	1.59	11/08/2018 11/08/2018	David Julian

LM Start	1.14	Rating **	M	Issue No.	24
LM End	1.14	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.310992 °	38.310992 °
				-121.578050 °	-121.578050 °
DWR ID	DWR_RD0349_01_s_2018_24				
Comment Code					
T1 : Trim trees to at least five feet above ground level.					
Inspector Comment					

No Photos

LM Start	1.20	Rating **	U	Issue No.	29
LM End	1.21	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.310110 °	38.309955 °
				-121.577608 °	-121.577495 °
DWR ID	DWR_RD0349_01_f_2017_29				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					

Photo 1 of 1 : FA_2018_RD0349_204_29_20180925_00007.jpg



Manage landside vegetation to allow inspection and access.

LM Start	1.40	Rating **	M	Issue No.	36
LM End	1.40	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.307553 °	38.307553 °
				-121.575848 °	-121.575848 °
DWR ID	DWR_RD0349_01_f_2018_36				
Comment Code					
TR : Tree or limb					
Inspector Comment					

Photo 1 of 1 : FA_2018_RD0349_204_36_20181109_00031.jpg



View of fallen tree limb on the land side toe (November 2018).

*** Location**

LS : Land Side N/A : Not Applicable
WS : Water Side
CR : Crown

**** Rating**

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M : Minimally Acceptable C : Corrected
U : Unacceptable A/W : Acceptable but Monitor & Maintain

+ Issue Type

Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	1.59	11/08/2018 11/08/2018	David Julian

LM Start	1.40	Rating **	C	Issue No.	32
LM End	1.40	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.307533 °	38.307533 °
				-121.575869 °	-121.575869 °
DWR ID	DWR_RD0349_01_f_2017_32				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					

No Photos

LM Start	1.54	Rating **	U	Issue No.	34
LM End	1.58	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.305772 °	38.305252 °
				-121.574763 °	-121.574791 °
DWR ID	DWR_RD0349_01_f_2017_34				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					
Arundo completely blocks visibility and access to waterside of levee.					

Photo 1 of 1 : FA_2018_RD0349_204_34_20180925_00009.jpg



Arundo completely blocks visibility and access to waterside of levee.
Must be removed.

* Location
LS : Land Side N/A : Not Applicable
WS : Water Side
CR : Crown

** Rating
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U : Unacceptable A/W : Acceptable but Monitor & Maintain

+ Issue Type
Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

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Reclamation District No. 0349 Sutter Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Steamboat Slough	Right	4.32	11/08/2018 11/08/2018	David Julian

LM Start	0.04	Rating **	M	Issue No.	44
LM End	0.08	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.304877 °	38.304719 °
				-121.575384 °	-121.576083 °
DWR ID	DWR_RD0349_02_f_2017_44				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					
Waterside vegetation should be removed or thinned to 20 feet from crown to allow inspection and access.					

Photo 1 of 1 : FA_2018_RD0349_205_44_20180925_00029.jpg



Waterside vegetation should be removed or thinned to 20 feet from crown to allow inspection and access.

LM Start	0.12	Rating **	M	Issue No.	78
LM End	0.14	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.304375 °	38.304218 °
				-121.576735 °	-121.577055 °
DWR ID	DWR_RD0349_02_f_2018_78				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					

No Photos

LM Start	0.22	Rating **	M	Issue No.	77
LM End	0.22	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.303517 °	38.303517 °
				-121.578191 °	-121.578191 °
DWR ID	DWR_RD0349_02_s_2018_77				
Comment Code					
T1 : Trim trees to at least five feet above ground level.					
Inspector Comment					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Steamboat Slough	Right	4.32	11/08/2018 11/08/2018	David Julian

LM Start	0.25	Rating **	M	Issue No.	75
LM End	0.25	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.303317 °	38.303317 °
				-121.578673 °	-121.578673 °
DWR ID	DWR_RD0349_02_f_2018_75				
Comment Code					
TR : Tree or limb					
Inspector Comment					
Remove down tree from the land side slope					

Photo 1 of 1 : FA_2018_RD0349_205_75_20181109_00109.jpg



View of down tree on the land side slope (November 2018).

LM Start	0.34	Rating **	C	Issue No.	29	
LM End	0.39	Issue Type +	Ma	Location *	WS	
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	2017 USACE Erosion Survey, DRAFT			38.302358 °	38.301772 °	
				-121.579707 °	-121.580093 °	
DWR ID	DWR_RD0349_02_f_2018_29					
Comment Code						
Inspector Comment						
2017 Site ID: STM 25.8 R						
Status: Critical						
2017 Field Notes: Upgraded to critical. Significant bank erosion.						
Site History: 2007 - Slow erosion, probably due to wave wash and fluvial erosion. Site has likely been here for awhile but was unseen due to boats parked in front. 2015 - Large tree popout. Erosion scarp now reaches the crown of the levee.						
2018: Site has been repaired						

No Photos

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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Steamboat Slough	Right	4.32	11/08/2018 11/08/2018	David Julian

LM Start	0.35	Rating **	C	Issue No.	39
LM End	0.35	Issue Type +	Ma	Location *	WS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Slope Stability		38.302368°	38.302368°	
			-121.579933°	-121.579933°	
DWR ID	DWR_RD0349_02_s_2017_39				
Comment Code					
S1 : Repair slope instability.					
Inspector Comment					
This erosion occurred during the Feb Storm 2017 event.					

No Photos

LM Start	0.35	Rating **	C	Issue No.	32
LM End	0.37	Issue Type +	Ma	Location *	
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	2017 Storm Damage		38.302217°	38.302017°	
			-121.579847°	-121.580017°	
DWR ID	DWR_RD0349_02_f_2017_32				
Comment Code					
Inspector Comment					
Levee Evaluation Comments Description: District Station 19+13 to 20+07, Sec. 07, T. 5 N. R. 4 E., M.D.M. . Approximately 94 linear feet of erosion exists on the water side slope of the Steamboat Slough levee (Unit 2). The erosion area commences approximately halfway down the slope from the levee crown and extends to the waterside toe. No rip rap is visible in this area. Site ID No: 320 Site Designation: LMA-147 Repair Type: Erosion Rating: Critical Field Date: 7/26/2017 Notes: fallen tree present					

No Photos

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Unit No. 02 Steamboat Slough	Right	4.32	11/08/2018 11/08/2018	David Julian

LM Start	0.35	Rating **	C	Issue No.	38
LM End	0.35	Issue Type +	Ma	Location *	WS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Encroachments		38.302277°	38.302277°	
			-121.579960°	-121.579960°	
DWR ID	DWR_RD0349_02_s_2017_38				
Comment Code					
TR : Tree or limb					
Inspector Comment					
Fallen tree on the waterside slope cut up and remove from the levee section.					

No Photos

LM Start	0.40	Rating **	M	Issue No.	74
LM End	0.42	Issue Type +	Ma	Location *	WS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Trim / Thin Trees		38.301673°	38.301347°	
			-121.580385°	-121.580522°	
DWR ID	DWR_RD0349_02_f_2018_74				
Comment Code					
T2 : Thin trees to allow visibility of the ground and room to flood fight.					
Inspector Comment					

No Photos

LM Start	0.45	Rating **	C	Issue No.	49
LM End	0.46	Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Trim / Thin Trees		38.300990°	38.300853°	
			-121.580678°	-121.580748°	
DWR ID	DWR_RD0349_02_s_2016_49				
Comment Code					
T2 : Thin trees to allow visibility of the ground and room to flood fight.					
Inspector Comment					
Thin out the trees to allow the slope to be seen.					

No Photos

*** Location**

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CR : Crown

**** Rating**

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M : Minimally Acceptable C : Corrected
U : Unacceptable A/W : Acceptable but Monitor & Maintain

+ Issue Type

Ma : Maintenance Deficiency
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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Steamboat Slough	Right	4.32	11/08/2018 11/08/2018	David Julian

LM Start	0.60	Rating **	M	Issue No.	28
LM End	0.72	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2017 USACE Erosion Survey, DRAFT			38.298897 °	38.297384 °
				-121.581571 °	-121.582176 °
DWR ID	DWR_RD0349_02_f_2018_28				
Comment Code					
Inspector Comment					
2017 Site ID: STM 25.5 R					
Status: Eroding					
2017 Field Notes: No observed change.					
Site History: 2010 - Small maintenance, erosion into the toe. 2011 - Minor new erosion at toe. 2015 - Minor new erosion at toe, new tree pop-out. 2016 - Fresh scarp at downstream end.					

Photo 1 of 1 : FA_2018_RD0349_205_28_20181114_00110.jpg



USACE 2013 Photo #1

LM Start	0.71	Rating **	C	Issue No.	52
LM End	0.71	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.297441 °	38.297441 °
				-121.582451 °	-121.582451 °
DWR ID	DWR_RD0349_02_f_2017_52				
Comment Code					
T1 : Trim trees to at least five feet above ground level.					
Inspector Comment					
Landside trees should be trimmed and maintained to allow inspection and access to levee slope and toe.					

No Photos

LM Start	0.79	Rating **	M	Issue No.	72
LM End	0.79	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.296343 °	38.296343 °
				-121.582607 °	-121.582607 °
DWR ID	DWR_RD0349_02_f_2018_72				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable		N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2018

Reclamation District No. 0349 Sutter Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Steamboat Slough	Right	4.32	11/08/2018 11/08/2018	David Julian

LM Start	0.87	Rating **	U	Issue No.	71
LM End	0.87	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.295242 °	38.295242 °
				-121.583043 °	-121.583043 °
DWR ID	DWR_RD0349_02_f_2018_71				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					
Arundo					

No Photos

LM Start	0.91	Rating **	M	Issue No.	55
LM End	2.10	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.294642 °	38.279207 °
				-121.583282 °	-121.589805 °
DWR ID	DWR_RD0349_02_f_2018_55				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					

No Photos

LM Start	0.92	Rating **	M	Issue No.	70
LM End	0.97	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.294623 °	38.293882 °
				-121.583287 °	-121.583418 °
DWR ID	DWR_RD0349_02_f_2018_70				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2018

Reclamation District No. 0349 Sutter Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Steamboat Slough	Right	4.32	11/08/2018 11/08/2018	David Julian

LM Start	0.93	Rating **	M	Issue No.	7
LM End	0.93	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.294385 °	38.294385 °
				-121.583351 °	-121.583351 °
DWR ID	DWR_RD0349_02_f_2017_7				
Comment Code					
TR : Tree or limb					
Inspector Comment					
Fallen tree has been removed from road, but currently obstructs visibility and access to landside slope. Smaller branches/foliage are stacked along both roadway shoulders. All debris should be removed from levee.					

Photo 1 of 1 : FA_2018_RD0349_205_7_20180925_00006.jpg



Fallen tree on landside slope.

LM Start	1.06	Rating **	M	Issue No.	69
LM End	1.26	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.292575 °	38.289685 °
				-121.583847 °	-121.584085 °
DWR ID	DWR_RD0349_02_f_2018_69				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Reclamation District No. 0349 Sutter Island

* Location	** Rating	+ Issue Type
LS : Land Side N/A : Not Applicable	A : Acceptable N : Not Inspected/Rated	Ma : Maintenance Deficiency
WS : Water Side	M : Minimally Acceptable C : Corrected	Ob : Design & System Obsolescence
CR : Crown	U : Unacceptable A/W : Acceptable but Monitor & Maintain	En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2018

Reclamation District No. 0349 Sutter Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Steamboat Slough	Right	4.32	11/08/2018 11/08/2018	David Julian

LM Start	1.33	Rating **	M	Issue No.	40 (cont)	
LM End	1.49	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	2017 Storm Damage			38.288727 °		38.286475 °
				-121.583823 °		-121.585026 °
DWR ID	DWR_RD0349_02_f_2017_40					
Comment Code						
Inspector Comment						
Levee Evaluation Comments						
Description:						
Site ID No:66						
Site Designation:DWR_RD0349_02_s_2012_28						
Repair Type: Erosion						
Rating:Area of Concern						
Field Date:6/7/2017						
Notes: dense vegetation and large trees hindered visibility; slope riprap appeared failing in some parts						

Photo 3 of 3 : FA_2018_RD0349_205_40_20180925_00020.jpg



LM Start	1.33	Rating **	A/W	Issue No.	27
LM End	1.49	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2017 USACE Erosion Survey, DRAFT			38.288727 °	38.286475 °
				-121.583823 °	-121.585026 °
DWR ID	DWR_RD0349_02_f_2018_27				
Comment Code					
Inspector Comment					
2017 Site ID: STM 24.7 R					
Status: Critical					
2017 Field Notes: No observed change.					
Site History: 1997 - Erosion of very sandy levee behind large stand of riparian vegetation on top right bank. Dry ravel of sand. 1999 - Quarry waste rock was dumped down the levee slope; poor repair job; still eroding in places. Eroding at midslope off fabric. 2005 - Length revised, only the middle 150 - 200 ft are eroding. 2006 - Some rock/small material dumped down the bank but it is slowly unraveling. Upstream end is unraveling faster. Steep slope with poor gradation so fines are washing out. 2010 - Lots of overhanging trees and erosion pockets. 2011 - This site is upgraded to CRITICAL. Near vertical bank at the downstream end. New erosion at various locations throughout the site.					

Photo 1 of 1 : FA_2018_RD0349_205_27_20181114_00105.jpg



USACE 2013 Photo #1

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2018

Reclamation District No. 0349 Sutter Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Steamboat Slough	Right	4.32	11/08/2018 11/08/2018	David Julian

LM Start	1.46	Rating **	A/W	Issue No.	34 (cont)							
LM End	1.46	Issue Type +	Ma	Location *								
Category	Supplemental		GPS Latitude/Longitude									
			Start	End								
Item	2017 Storm Damage		38.286886 °	38.286861 °								
			-121.584589 °	-121.584622 °								
DWR ID	DWR_RD0349_02_f_2017_34											
Comment Code												
Inspector Comment												
<p>Levee Evaluation Comments</p> <p>Description: District Station 77+56 to 77+68, Sec. 18, T. 5 N. R. 4 E., M.D.M. Approximately 12 linear feet of erosion/sloughing exists along the water side slope of Steamboat Slough (Unit 2). The erosion area commences approximately halfway down the slope from the levee crown and extends to the waterside toe around existing trees. No rip rap is visible in this area.</p> <p>Site ID No: 322</p> <p>Site Designation: LMA-149</p> <p>Repair Type: Erosion</p> <p>Rating: Area of Concern</p> <p>Field Date: 7/28/2017</p> <p>Notes: no berm</p>												

Photo 3 of 3 : FA_2018_RD0349_205_34_20180925_00012.jpg



LM Start	1.48	Rating **	A/W	Issue No.	37							
LM End	1.49	Issue Type +	Ma	Location *								
Category	Supplemental		GPS Latitude/Longitude									
			Start	End								
Item	2017 Storm Damage		38.286708 °	38.286569 °								
			-121.584839 °	-121.585042 °								
DWR ID	DWR_RD0349_02_f_2017_37											
Comment Code												
Inspector Comment												
<p>Levee Evaluation Comments</p> <p>Description: District Station 78+51 to 79+28, Sec. 18, T. 5 N. R. 4 E., M.D.M. Approximately 77 linear feet of erosion and scour exist along the water side slope of Steamboat Slough (Unit 2). The erosion area commences approximately halfway down the slope from the levee crown and extends to the waterside toe around existing trees. No rip rap is visible in this area.</p> <p>Site ID No: 323</p> <p>Site Designation: LMA-150</p> <p>Repair Type: Erosion</p> <p>Rating: Area of Concern</p> <p>Field Date: 7/28/2017</p> <p>Notes: no berm</p>												

Photo 1 of 2 : FA_2018_RD0349_205_37_20180925_00015.jpg



* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2018

Reclamation District No. 0349 Sutter Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Steamboat Slough	Right	4.32	11/08/2018 11/08/2018	David Julian

LM Start	1.48	Rating **	A/W	Issue No.	37 (cont)
LM End	1.49	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2017 Storm Damage			38.286708 °	38.286569 °
				-121.584839 °	-121.585042 °
DWR ID	DWR_RD0349_02_f_2017_37				
Comment Code					
Inspector Comment					
<p>Levee Evaluation Comments</p> <p>Description: District Station 78+51 to 79+28, Sec. 18, T. 5 N. R. 4 E., M.D.M. Approximately 77 linear feet of erosion and scour exist along the water side slope of Steamboat Slough (Unit 2). The erosion area commences approximately halfway down the slope from the levee crown and extends to the waterside toe around existing trees. No rip rap is visible in this area.</p> <p>Site ID No: 323</p> <p>Site Designation: LMA-150</p> <p>Repair Type: Erosion</p> <p>Rating: Area of Concern</p> <p>Field Date: 7/28/2017</p> <p>Notes: no berm</p>					

Photo 2 of 2 : FA_2018_RD0349_205_37_20180925_00016.jpg



LM Start	1.62	Rating **	C	Issue No.	33
LM End	1.62	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.285497 °	38.285497 °
				-121.587083 °	-121.587083 °
DWR ID	DWR_RD0349_02_s_2018_33				
Comment Code					
T1 : Trim trees to at least five feet above ground level.					
Inspector Comment					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2018

Reclamation District No. 0349 Sutter Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Steamboat Slough	Right	4.32	11/08/2018 11/08/2018	David Julian

LM Start	1.68	Rating **	C	Issue No.	54
LM End	1.68	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.285002 °	38.285002 °
				-121.587882 °	-121.587882 °
DWR ID	DWR_RD0349_02_s_2018_54				
Comment Code					
T1 : Trim trees to at least five feet above ground level.					
Inspector Comment					

No Photos

LM Start	1.81	Rating **	M	Issue No.	56
LM End	1.94	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.283458 °	38.281525 °
				-121.589240 °	-121.589685 °
DWR ID	DWR_RD0349_02_f_2018_56				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					

No Photos

LM Start	2.04	Rating **	M	Issue No.	26
LM End	2.05	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2017 USACE Erosion Survey, DRAFT			38.280069 °	38.279919 °
				-121.589443 °	-121.589438 °
DWR ID	DWR_RD0349_02_f_2018_26				
Comment Code					
Inspector Comment					
2017 Site ID: STM 24.1 R					
Status: Eroding					
2017 Field Notes: No observed change.					
Site History: 2011 - Small scallop caused by erosion and wave wash.					

Photo 1 of 1 : FA_2018_RD0349_205_26_20181114_00038.jpg



USACE 2013 Photo #1

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2018

Reclamation District No. 0349 Sutter Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Steamboat Slough	Right	4.32	11/08/2018 11/08/2018	David Julian

LM Start	2.11	Rating **	A/W	Issue No.	41
LM End	2.13	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2017 Storm Damage			38.279039 °	38.278806 °
				-121.589664 °	-121.589783 °
DWR ID	DWR_RD0349_02_f_2017_41				
Comment Code					
Inspector Comment					
Levee Evaluation Comments					
Description:District Station 112+11 to 113+04, Sec. 13, T. 5 N. R. 3 E., M.D.M. Approximately 93 linear feet of erosion exists along the water side slope of Steamboat Slough (Unit 2). The erosion area commences approximately 3/4 of the way down the slope from the levee crown and extends to the waterside toe around existing trees. No rip rap is visible in this area.					
Site ID No:324					
Site Designation:LMA-151					
Repair Type: Erosion					
Rating:Serious					
Field Date:7/28/2017					
Notes: no berm					

Photo 1 of 3 : FA_2018_RD0349_205_41_20180925_00021.jpg



LM Start	2.11	Rating **	A/W	Issue No.	41 (cont)
LM End	2.13	Issue Type +	Ma	Location *	

Photo 2 of 3 : FA_2018_RD0349_205_41_20180925_00022.jpg



* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2018

Reclamation District No. 0349 Sutter Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Steamboat Slough	Right	4.32	11/08/2018 11/08/2018	David Julian

LM Start	2.11	Rating **	A/W	Issue No.	41 (cont)
LM End	2.13	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2017 Storm Damage			38.279039 °	38.278806 °
				-121.589664 °	-121.589783 °
DWR ID	DWR_RD0349_02_f_2017_41				
Comment Code					
Inspector Comment					
Levee Evaluation Comments					
Description:District Station 112+11 to 113+04, Sec. 13, T. 5 N. R. 3 E., M.D.M. Approximately 93 linear feet of erosion exists along the water side slope of Steamboat Slough (Unit 2). The erosion area commences approximately 3/4 of the way down the slope from the levee crown and extends to the waterside toe around existing trees. No rip rap is visible in this area.					
Site ID No:324					
Site Designation:LMA-151					
Repair Type: Erosion					
Rating:Serious					
Field Date:7/28/2017					
Notes: no berm					

Photo 3 of 3 : FA_2018_RD0349_205_41_20180925_00023.jpg



LM Start	2.11	Rating **	A/W	Issue No.	25
LM End	2.14	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2017 USACE Erosion Survey, DRAFT			38.279017 °	38.278597 °
				-121.589615 °	-121.589854 °
DWR ID	DWR_RD0349_02_f _ 2018_25				
Comment Code					
Inspector Comment					
2017 Site ID: STM 23.9 R					
Status: Eroding					
2017 Field Notes: No observed change.					
Site History: 1997 - Top right bank has retreated into the levee. Site is between two rock sites. 1999 - Downstream half of the reach repaired with rock. 2000 - Trees leaning into the water. 2010 - Site appears worse. 2011 - New erosion at the toe. 2013 - Short vertical sections observed at upstream end. 2015 - Minor new erosion.					

Photo 1 of 1 : FA_2018_RD0349_205_25_20181114_00017.jpg



USACE 2013 Photo #1

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2018

Reclamation District No. 0349 Sutter Island

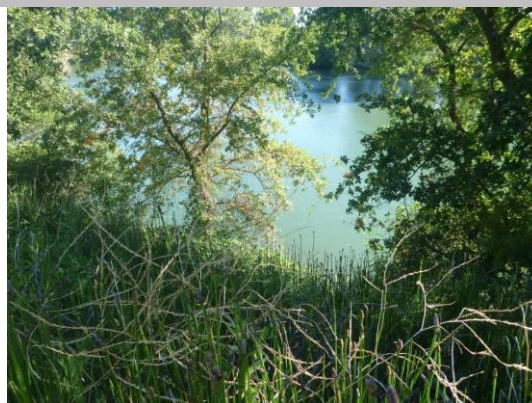
Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Steamboat Slough	Right	4.32	11/08/2018 11/08/2018	David Julian

LM Start	2.39	Rating **	M	Issue No.	48
LM End	2.39	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.275487°	38.275487°
				-121.591242°	-121.591242°
DWR ID	DWR_RD0349_02_f_2018_48				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					
Remove vegetation all the way down the land side slope					

No Photos

LM Start	2.43	Rating **	A/W	Issue No.	42
LM End	2.44	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2017 Storm Damage			38.275131 °	38.275036 °
				-121.590594 °	-121.590461 °
DWR ID	DWR_RD0349_02_f_2017_42				
Comment Code					
Inspector Comment					
Levee Evaluation Comments					
Description:District Station 128+76 to 129+27, Sec. 13, T. 5 N. R. 3 E., M.D.M. Approximately 51 linear feet of erosion exists along the water side slope of Steamboat Slough (Unit 2). The erosion area commences approximately 3/4 of the way down the slope from the levee crown and extends to the waterside toe around existing trees. No rip rap is visible in this area.					
Site ID No:325					
Site Designation:LMA-152					
Repair Type: Erosion					
Rating:Area of Concern					
Field Date:7/28/2017					
Notes: acess very difficult, steep slope, dense brush					

Photo 1 of 2 : FA_2018_RD0349_205_42_20180925_00024.jpg



* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

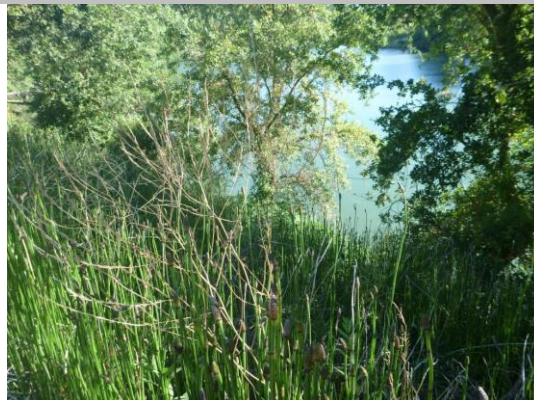
Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2018

Reclamation District No. 0349 Sutter Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Steamboat Slough	Right	4.32	11/08/2018 11/08/2018	David Julian

LM Start	2.43	Rating **	A/W	Issue No.	42 (cont)
LM End	2.44	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2017 Storm Damage			38.275131 °	38.275036 °
				-121.590594 °	-121.590461 °
DWR ID	DWR_RD0349_02_f _ 2017_42				
Comment Code					
Inspector Comment					
Levee Evaluation Comments					
Description:District Station 128+76 to 129+27, Sec. 13, T. 5 N. R. 3 E., M.D.M. Approximately 51 linear feet of erosion exists along the water side slope of Steamboat Slough (Unit 2). The erosion area commences approximately 3/4 of the way down the slope from the levee crown and extends to the waterside toe around existing trees. No rip rap is visible in this area.					
Site ID No:325					
Site Designation:LMA-152					
Repair Type: Erosion					
Rating:Area of Concern					
Field Date:7/28/2017					
Notes: access very difficult, steep slope, dense brush					

Photo 2 of 2 : FA_2018_RD0349_205_42_20180925_00025.jpg



LM Start	2.56	Rating **	A/W	Issue No.	24
LM End	2.69	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2017 USACE Erosion Survey, DRAFT			38.273854 °	38.271998 °
				-121.588745 °	-121.589424 °
DWR ID	DWR_RD0349_02_f_2018_24				
Comment Code					
Inspector Comment					
2017 Site ID: STM 23.6 R					
Status: Eroding					
2017 Field Notes: Previously observed quarry stone at the downstream end is now gone. Significant erosion at upstream end. Fresh sedimentation on the downstream end.					
Site History: 2011 - Toe scour at the tidal zone. 2015 - New tree pop-out and minor new erosion. 2016 - New erosion at upstream end.					

Photo 1 of 2 : FA_2018_RD0349_205_24_20181114_00008.jpg



USACE 2013 Photo #1

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2018

Reclamation District No. 0349 Sutter Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Steamboat Slough	Right	4.32	11/08/2018 11/08/2018	David Julian

LM Start	2.56	Rating **	A/W	Issue No.	24 (cont)
LM End	2.69	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2017 USACE Erosion Survey, DRAFT			38.273854 °	38.271998 °
				-121.588745 °	-121.589424 °
DWR ID	DWR_RD0349_02_f_2018_24				
Comment Code					
Inspector Comment					
2017 Site ID: STM 23.6 R					
Status: Eroding					
2017 Field Notes: Previously observed quarry stone at the downstream end is now gone. Significant erosion at upstream end. Fresh sedimentation on the downstream end.					
Site History: 2011 - Toe scour at the tidal zone. 2015 - New tree pop-out and minor new erosion. 2016 - New erosion at upstream end.					

Photo 2 of 2 : FA_2018_RD0349_205_24_20181114_00009.jpg



USACE 2013 Photo #2

LM Start	2.56	Rating **	A/W	Issue No.	43
LM End	2.59	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2017 Storm Damage			38.273769 °	38.273386 °
				-121.588742 °	-121.588672 °
DWR ID	DWR_RD0349_02_f _ 2017_43				
Comment Code					
Inspector Comment					
Levee Evaluation Comments					
Description:District Station 135+81 to 137+00, Sec. 13, T. 5 N. R. 3 E., M.D.M. Approximately 119 linear feet of sloughing exists due to scour along the water side toe of Steamboat Slough (Unit 2). The erosion area commences approximately 3/4 of the way down the slope from the levee crown and extends to the waterside toe. No rip rap is visible in this area.					
Site ID No:326					
Site Designation:LMA-153					
Repair Type: Erosion					
Rating:Area of Concern					
Field Date:7/28/2017					
Notes: no berm					

Photo 1 of 3 : FA_2018_RD0349_205_43_20180925_00026.jpg



* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2018

Reclamation District No. 0349 Sutter Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Steamboat Slough	Right	4.32	11/08/2018 11/08/2018	David Julian

LM Start	3.29	Rating **	M	Issue No.	62
LM End	3.60	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.263594 °	38.262449 °
				-121.588629 °	-121.593726 °
DWR ID	DWR_RD0349_02_f_2018_62				
Comment Code					
V9 : Keep the crown roadway free of vegetation.					
Inspector Comment					
Thick berry vines completely block inspection and access to toe.					

Photo 1 of 1 : FA_2018_RD0349_205_62_20180925_00039.jpg



Remove berry vines to allow inspection and access.

LM Start	3.36	Rating **	C	Issue No.	63
LM End	3.36	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.262866 °	38.262866 °
				-121.589346 °	-121.589346 °
DWR ID	DWR_RD0349_02_f_2017_63				
Comment Code					
T1 : Trim trees to at least five feet above ground level.					
Inspector Comment					
Landside trees should be trimmed or thinned to allow inspection and access to levee slope and toe. Trees smaller than 4-inches in diameter at chest height should be removed.					

No Photos

LM Start	3.38	Rating **	M	Issue No.	23
LM End	3.49	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2017 USACE Erosion Survey, DRAFT			38.262510 °	38.262533 °
				-121.589481 °	-121.591690 °
DWR ID	DWR_RD0349_02_f_2018_23				
Comment Code					
Inspector Comment					
2017 Site ID: STM 22.8 R					
Status: Eroding					
2017 Field Notes: No observed change.					
Site History: 2010 - Slumping sections on the lower bank, appears to be scouring around the trees. 2011 - Soil beach at toe.					

Photo 1 of 1 : FA_2018_RD0349_205_23_20181114_00007.jpg



USACE 2013 Photo #1

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2018

Reclamation District No. 0349 Sutter Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Steamboat Slough	Right	4.32	11/08/2018 11/08/2018	David Julian

LM Start	3.72	Rating **	M	Issue No.	64
LM End	3.72	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.261143 °	38.261143 °
				-121.595071 °	-121.595071 °
DWR ID	DWR_RD0349_02_s_2018_64				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					
Remove cactus (century plants) from waterside shoulder.					

No Photos

LM Start	3.81	Rating **	M	Issue No.	85
LM End	3.99	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			38.259882 °	38.257252 °
				-121.595245 °	-121.595403 °
DWR ID	DWR_RD0349_02_f_2015_85				
Comment Code					
A1 : Exterminate rodents and backfill and compact or grout burrows.					
Inspector Comment					
Exterminate the rodents from the levee section.					

No Photos

LM Start	3.93	Rating **	M	Issue No.	31
LM End	4.31	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.258165 °	38.254680 °
				-121.595143 °	-121.599793 °
DWR ID	DWR_RD0349_02_f_2018_31				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					
Remove black berries and control vegetation all the way down to the land side toe					

Photo 1 of 1 : FA_2018_RD0349_205_31_20181109_00100.jpg



View looking downstream of vegetation part way down the land side slope (November 2018).

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2018

Reclamation District No. 0349 Sutter Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Sutter Slough	Left	6.50	11/08/2018 11/08/2018	David Julian

LM Start	0.78	Rating **	M	Issue No.	9
LM End	0.78	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.265918 °	38.265918 °
				-121.601736 °	-121.601736 °
DWR ID	DWR_RD0349_03_f_2017_9				
Comment Code					
TR : Tree or limb					
Inspector Comment					
Clear fallen branches from waterside slope and crown road.					

No Photos

LM Start	0.80	Rating **	M	Issue No.	67
LM End	0.80	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.266201 °	38.266201 °
				-121.601832 °	-121.601832 °
DWR ID	DWR_RD0349_03_s_2018_67				
Comment Code					
TR : Tree or limb					
Inspector Comment					
Trees and limbs on landside shoulder and slope need to be cleared out to allow inspection and access.					

Photo 1 of 1 : FA_2018_RD0349_206_67_20181109_00095.jpg



View of down tree on the land side shoulder (November 2018).

LM Start	1.05	Rating **	M	Issue No.	114
LM End	1.16	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.269462 °	38.271158 °
				-121.603423 °	-121.603475 °
DWR ID	DWR_RD0349_03_f_2018_114				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2018

Reclamation District No. 0349 Sutter Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Sutter Slough	Left	6.50	11/08/2018 11/08/2018	David Julian

LM Start	1.07	Rating **	M	Issue No.	69
LM End	1.07	Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Vegetation		38.269859 °	38.269859 °	
			-121.603541 °	-121.603541 °	
DWR ID	DWR_RD0349_03_s_2018_69				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					

No Photos

LM Start	1.11	Rating **	M	Issue No.	51
LM End	1.13	Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Trim / Thin Trees		38.270452 °	38.270677 °	
			-121.603587 °	-121.603572 °	
DWR ID	DWR_RD0349_03_f_2017_51				
Comment Code					
T1 : Trim trees to at least five feet above ground level.					
Inspector Comment					

No Photos

LM Start	1.25	Rating **	M	Issue No.	112
LM End	1.25	Issue Type +	Ma	Location *	WS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Trim / Thin Trees		38.272423 °	38.272423 °	
			-121.603115 °	-121.603115 °	
DWR ID	DWR_RD0349_03_f_2018_112				
Comment Code					
T1 : Trim trees to at least five feet above ground level.					
Inspector Comment					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2018

Reclamation District No. 0349 Sutter Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Sutter Slough	Left	6.50	11/08/2018 11/08/2018	David Julian

LM Start	1.29	Rating **	M	Issue No.	111
LM End	1.29	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.272972 °	38.272972 °
				-121.602785 °	-121.602785 °
DWR ID	DWR_RD0349_03_f_2018_111				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					
Remove vegetation all the way down the land side slope					

No Photos

LM Start	1.47	Rating **	C	Issue No.	33
LM End	1.47	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.275308 °	38.275308 °
				-121.601342 °	-121.601342 °
DWR ID	DWR_RD0349_03_f_2017_33				
Comment Code					
TR : Tree or limb					
Inspector Comment					
Remove remnants of 2 dead trees on landside slope.					

No Photos

LM Start	1.48	Rating **	M	Issue No.	72
LM End	1.48	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.275341 °	38.275341 °
				-121.601355 °	-121.601355 °
DWR ID	DWR_RD0349_03_s_2018_72				
Comment Code					
T1 : Trim trees to at least five feet above ground level.					
Inspector Comment					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2018

Reclamation District No. 0349 Sutter Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Sutter Slough	Left	6.50	11/08/2018 11/08/2018	David Julian

LM Start	1.49	Rating **	M	Issue No.	71
LM End	1.49	Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Vegetation		38.275496°	38.275496°	
			-121.601273°	-121.601273°	
DWR ID	DWR_RD0349_03_s_2018_71				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					

No Photos

LM Start	1.49	Rating **	M	Issue No.	70
LM End	1.49	Issue Type +	Ma	Location *	WS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Vegetation		38.275496°	38.275496°	
			-121.601272°	-121.601272°	
DWR ID	DWR_RD0349_03_s_2018_70				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					

No Photos

LM Start	1.67	Rating **	M	Issue No.	110
LM End	1.67	Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Vegetation		38.278017°	38.278017°	
			-121.600438°	-121.600438°	
DWR ID	DWR_RD0349_03_f_2018_110				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					
Remove vegetation all the way down the land side slope.					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2018

Reclamation District No. 0349 Sutter Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Sutter Slough	Left	6.50	11/08/2018 11/08/2018	David Julian

LM Start	2.38	Rating **	M	Issue No.	109
LM End	2.38	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.287118 °	38.287118 °
				-121.604027 °	-121.604027 °
DWR ID	DWR_RD0349_03_f_2018_109				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					
Remove vegetation all the way down the land side slope					

No Photos

LM Start	2.55	Rating **	C	Issue No.	41
LM End	2.74	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.289420 °	38.292202 °
				-121.603321 °	-121.603669 °
DWR ID	DWR_RD0349_03_f_2017_41				
Comment Code					
T2 : Thin trees to allow visibility of the ground and room to flood fight.					
Inspector Comment					

No Photos

LM Start	2.83	Rating **	M	Issue No.	35
LM End	2.97	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.293403 °	38.295376 °
				-121.604013 °	-121.604726 °
DWR ID	DWR_RD0349_03_s_2018_35				
Comment Code					
T1 : Trim trees to at least five feet above ground level.					
Inspector Comment					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Reclamation District No. 0349 Sutter Island

View looking downstream at vegetation off the water side shoulder (November 2018).

No Photos

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**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2018

Reclamation District No. 0349 Sutter Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Sutter Slough	Left	6.50	11/08/2018 11/08/2018	David Julian

LM Start	3.40	Rating **	M	Issue No.	104
LM End	3.40	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.300347 °	38.300347 °
				-121.600277 °	-121.600277 °
DWR ID	DWR_RD0349_03_f_2018_104				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					
Remove vegetation all the way down the land side slope					

No Photos

LM Start	3.99	Rating **	C	Issue No.	50
LM End	4.91	Issue Type +	Ma	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.307972 °	38.318371 °
				-121.597037 °	-121.589593 °
DWR ID	DWR_RD0349_03_s_2017_50				
Comment Code					
V9 : Keep the crown roadway free of vegetation.					
Inspector Comment					
Keep the crown roadway free of vegetation.					

No Photos

LM Start	4.12	Rating **	C	Issue No.	46
LM End	4.12	Issue Type +	Ma	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.309669 °	38.309669 °
				-121.598068 °	-121.598068 °
DWR ID	DWR_RD0349_03_f_2017_46				
Comment Code					
T4 : Trim trees over roadway to at least 12 feet above ground level.					
Inspector Comment					
Trim trees to 12 feet above crown road.					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2018

Reclamation District No. 0349 Sutter Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Sutter Slough	Left	6.50	11/08/2018 11/08/2018	David Julian

LM Start	4.19	Rating **	M	Issue No.	102
LM End	4.19	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.310490 °	38.310490 °
				-121.597265 °	-121.597265 °
DWR ID	DWR_RD0349_03_f_2018_102				
Comment Code					
TR : Tree or limb					
Inspector Comment					
Remove tree from land side slope					

Photo 1 of 1 : FA_2018_RD0349_206_102_20181109_00088.jpg



View of tree on the land side slope (November 2018).

LM Start	4.20	Rating **	M	Issue No.	78
LM End	4.20	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.310528 °	38.310528 °
				-121.597180 °	-121.597180 °
DWR ID	DWR_RD0349_03_f_2014_78				
Comment Code					
T4 : Trim trees over roadway to at least 12 feet above ground level.					
Inspector Comment					
Dead tree need removing from levee section.					

No Photos

LM Start	4.26	Rating **	M	Issue No.	101
LM End	4.26	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.310948 °	38.310948 °
				-121.596145 °	-121.596145 °
DWR ID	DWR_RD0349_03_f_2018_101				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					
Remove vegetation all the way down the land side slope					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2018

Reclamation District No. 0349 Sutter Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Sutter Slough	Left	6.50	11/08/2018 11/08/2018	David Julian

LM Start	4.48	Rating **	C	Issue No.	76
LM End	4.48	Issue Type +	Ma	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.312980 °	38.312980 °
				-121.593081 °	-121.593081 °
DWR ID	DWR_RD0349_03_s _ 2018_76				
Comment Code					
T4 : Trim trees over roadway to at least 12 feet above ground level.					
Inspector Comment					

No Photos

LM Start	4.52	Rating **	M	Issue No.	77
LM End	4.52	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.313317 °	38.313317 °
				-121.592608 °	-121.592608 °
DWR ID	DWR_RD0349_03_s _ 2018_77				
Comment Code					
T1 : Trim trees to at least five feet above ground level.					
Inspector Comment					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2018

Reclamation District No. 0349 Sutter Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Sutter Slough	Left	6.50	11/08/2018 11/08/2018	David Julian

LM Start	4.56	Rating **	A/W	Issue No.	115
LM End	4.68	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2017 USACE Erosion Survey, DRAFT			38.313836 °	38.315407 °
				-121.592259 °	-121.591433 °
DWR ID	DWR_RD0349_03_f_2018_115				
Comment Code					
Inspector Comment					
2017 Site ID: STR 26.5 L					
Status: Eroding					
2017 Field Notes: There appears soil under geotech fabric that appears to be failing but hard to tell.					
Site History: 2002 - Original rock over geotextile is sliding off and the end is coming unraveled. 2003 - Some minor new erosion on the downstream end. 2004 - Site has gotten worse. Underlined geofabric is exposed. 2005 - Still looks bad with exposed geotextile fabric. 2006 - Still have some new unraveling and exposed fabric. Site lengthened upstream. 2009 - Minimal new erosion. 2010 - geotextile fabric placed since last year, possible flood fight. 2012 - Exposed geotech style fabric, assume rock on top slid off. 2015 - Erosion pockets covered with plastic. 2018 DWR Inspector: This was rated as A/W due to the inability to verify the rating at the time of inspection. This site will be verified during the next inspection.					

Photo 1 of 1 : FA_2018_RD0349_206_115_20181119_00096.jpg



USACE 2013 Photo #1

LM Start	4.56	Rating **	C	Issue No.	52
LM End	4.56	Issue Type +	Ma	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.313758 °	38.313758 °
				-121.592080 °	-121.592080 °
DWR ID	DWR_RD0349_03_f_2017_52				
Comment Code					
T4 : Trim trees over roadway to at least 12 feet above ground level.					
Inspector Comment					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2018

Reclamation District No. 0349 Sutter Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Sutter Slough	Left	6.50	11/08/2018 11/08/2018	David Julian

LM Start	4.64	Rating **	C	Issue No.	54
LM End	4.64	Issue Type +	Ma	Location *	CR
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Trim / Thin Trees		38.314770°	38.314770°	
			-121.591497°	-121.591497°	
DWR ID	DWR_RD0349_03_s_2018_54				
Comment Code					
T4 : Trim trees over roadway to at least 12 feet above ground level.					
Inspector Comment					

No Photos

LM Start	4.67	Rating **	C	Issue No.	79
LM End	4.67	Issue Type +	Ma	Location *	CR
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Trim / Thin Trees		38.315218°	38.315218°	
			-121.591301°	-121.591301°	
DWR ID	DWR_RD0349_03_s_2018_79				
Comment Code					
T4 : Trim trees over roadway to at least 12 feet above ground level.					
Inspector Comment					

No Photos

LM Start	4.71	Rating **	C	Issue No.	53
LM End	4.71	Issue Type +	Ma	Location *	WS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Trim / Thin Trees		38.315813°	38.315813°	
			-121.590960°	-121.590960°	
DWR ID	DWR_RD0349_03_f_2017_53				
Comment Code					
T4 : Trim trees over roadway to at least 12 feet above ground level.					
Inspector Comment					
Trim tree to 12 feet above crown road, also remove low branch on waterside shoulder.					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2018

Reclamation District No. 0349 Sutter Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Sutter Slough	Left	6.50	11/08/2018 11/08/2018	David Julian

LM Start	4.74	Rating **	C	Issue No.	55
LM End	4.74	Issue Type +	Ma	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.316182°	38.316182°
				-121.590745°	-121.590745°
DWR ID	DWR_RD0349_03_s_2018_55				
Comment Code					
T4 : Trim trees over roadway to at least 12 feet above ground level.					
Inspector Comment					

No Photos

LM Start	4.77	Rating **	M	Issue No.	80
LM End	4.77	Issue Type +	Ma	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.316579 °	38.316579 °
				-121.590501 °	-121.590501 °
DWR ID	DWR_RD0349_03_s_2018_80				
Comment Code					
T4 : Trim trees over roadway to at least 12 feet above ground level.					
Inspector Comment					

No Photos

LM Start	4.79	Rating **	C	Issue No.	56
LM End	4.79	Issue Type +	Ma	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.316767 °	38.316767 °
				-121.590391 °	-121.590391 °
DWR ID	DWR_RD0349_03_f_2017_56				
Comment Code					
T4 : Trim trees over roadway to at least 12 feet above ground level.					
Inspector Comment					
Trim trees to 12 feet above levee crown.					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2018

Reclamation District No. 0349 Sutter Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Sutter Slough	Left	6.50	11/08/2018 11/08/2018	David Julian

LM Start	4.91	Rating **	C	Issue No.	47
LM End	5.59	Issue Type +	Ma	Location *	CR
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Vegetation		38.318371 °	38.326229 °	
			-121.589593 °	-121.584754 °	
DWR ID	DWR_RD0349_03_f_2017_47				
Comment Code					
V9 : Keep the crown roadway free of vegetation.					
Inspector Comment					

No Photos

LM Start	4.96	Rating **	C	Issue No.	57
LM End	4.99	Issue Type +	Ma	Location *	CR
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Trim / Thin Trees		38.319073 °	38.319491 °	
			-121.589639 °	-121.589634 °	
DWR ID	DWR_RD0349_03_s_2018_57				
Comment Code					
T4 : Trim trees over roadway to at least 12 feet above ground level.					
Inspector Comment					

No Photos

LM Start	5.01	Rating **	C	Issue No.	81
LM End	5.01	Issue Type +	Ma	Location *	CR
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Trim / Thin Trees		38.319835 °	38.319835 °	
			-121.589601 °	-121.589601 °	
DWR ID	DWR_RD0349_03_s_2018_81				
Comment Code					
T4 : Trim trees over roadway to at least 12 feet above ground level.					
Inspector Comment					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2018

Reclamation District No. 0349 Sutter Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Sutter Slough	Left	6.50	11/08/2018 11/08/2018	David Julian

LM Start	5.03	Rating **	M	Issue No.	98
LM End	5.03	Issue Type +	Ma	Location *	WS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Vegetation		38.320068 °	38.320068 °	
			-121.589590 °	-121.589590 °	
DWR ID	DWR_RD0349_03_f_2018_98				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					

No Photos

LM Start	5.05	Rating **	C	Issue No.	82
LM End	5.05	Issue Type +	Ma	Location *	CR
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Trim / Thin Trees		38.320362 °	38.320362 °	
			-121.589623 °	-121.589623 °	
DWR ID	DWR_RD0349_03_s_2018_82				
Comment Code					
T4 : Trim trees over roadway to at least 12 feet above ground level.					
Inspector Comment					

No Photos

LM Start	5.06	Rating **	M	Issue No.	59
LM End	5.17	Issue Type +	Ma	Location *	WS
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	2017 USACE Erosion Survey, DRAFT		38.320500 °	38.322216 °	
			-121.589882 °	-121.590101 °	
DWR ID	DWR_RD0349_03_f_2018_59				
Comment Code					
Inspector Comment					
2017 Site ID: STR 26.9 R					
Status: Eroding					
2017 Field Notes: new erosion at toe. new erosion pocket at upstream end.					
Site History: 2015 - Large Tree popout and tall vertical sections into the levee slope.					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2018

Reclamation District No. 0349 Sutter Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Sutter Slough	Left	6.50	11/08/2018 11/08/2018	David Julian

LM Start	5.06	Rating **	C	Issue No.	83
LM End	5.06	Issue Type +	Ma	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.320617 °	38.320617 °
				-121.589650 °	-121.589650 °
DWR ID	DWR_RD0349_03_s_2018_83				
Comment Code					
T4 : Trim trees over roadway to at least 12 feet above ground level.					
Inspector Comment					

No Photos

LM Start	5.09	Rating **	C	Issue No.	58
LM End	5.09	Issue Type +	Ma	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.320934 °	38.320934 °
				-121.589686 °	-121.589686 °
DWR ID	DWR_RD0349_03_f_2017_58				
Comment Code					
T4 : Trim trees over roadway to at least 12 feet above ground level.					
Inspector Comment					

No Photos

LM Start	5.10	Rating **	M	Issue No.	99
LM End	5.10	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.321207 °	38.321207 °
				-121.589705 °	-121.589705 °
DWR ID	DWR_RD0349_03_f_2018_99				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					
Remove vegetation all the way down the land side slope					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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No Photos

No Photos

No Photos

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Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2018

Reclamation District No. 0349 Sutter Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Sutter Slough	Left	6.50	11/08/2018 11/08/2018	David Julian

LM Start	5.33	Rating **	C	Issue No.	87
LM End	5.36	Issue Type +	Ma	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.323204 °	38.323373 °
				-121.587392 °	-121.586898 °
DWR ID	DWR_RD0349_03_s_2018_87				
Comment Code					
T4 : Trim trees over roadway to at least 12 feet above ground level.					
Inspector Comment					

No Photos

LM Start	5.40	Rating **	C	Issue No.	60
LM End	5.42	Issue Type +	Ma	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.323767 °	38.323966 °
				-121.586269 °	-121.586029 °
DWR ID	DWR_RD0349_03_f_2017_60				
Comment Code					
T4 : Trim trees over roadway to at least 12 feet above ground level.					
Inspector Comment					
Trim trees to 12 feet above levee crown.					

No Photos

LM Start	5.44	Rating **	C	Issue No.	88
LM End	5.47	Issue Type +	Ma	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.324120 °	38.324602 °
				-121.585884 °	-121.585586 °
DWR ID	DWR_RD0349_03_s_2018_88				
Comment Code					
T4 : Trim trees over roadway to at least 12 feet above ground level.					
Inspector Comment					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2018

Reclamation District No. 0349 Sutter Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Sutter Slough	Left	6.50	11/08/2018 11/08/2018	David Julian

LM Start	5.53	Rating **	C	Issue No.	61
LM End	5.55	Issue Type +	Ma	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.325304 °	38.325613 °
				-121.585180 °	-121.585026 °
DWR ID	DWR_RD0349_03_f_2017_61				
Comment Code					
T4 : Trim trees over roadway to at least 12 feet above ground level.					
Inspector Comment					

No Photos

LM Start	5.59	Rating **	M	Issue No.	96
LM End	5.61	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.326127 °	38.326387 °
				-121.584713 °	-121.584670 °
DWR ID	DWR_RD0349_03_f_2018_96				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					

No Photos

LM Start	5.60	Rating **	C	Issue No.	89
LM End	5.60	Issue Type +	Ma	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.326261 °	38.326261 °
				-121.584721 °	-121.584721 °
DWR ID	DWR_RD0349_03_s_2018_89				
Comment Code					
T4 : Trim trees over roadway to at least 12 feet above ground level.					
Inspector Comment					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
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Reclamation District No. 0349 Sutter Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Sutter Slough	Left	6.50	11/08/2018 11/08/2018	David Julian

LM Start	5.60	Rating **	M	Issue No.	73
LM End	5.75	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.326285 °	38.326285 °
				-121.584737 °	-121.584737 °
DWR ID	DWR_RD0349_03_f_2018_73				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					

No Photos

LM Start	5.62	Rating **	C	Issue No.	90
LM End	5.62	Issue Type +	Ma	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.326654 °	38.326654 °
				-121.584681 °	-121.584681 °
DWR ID	DWR_RD0349_03_s_2018_90				
Comment Code					
T4 : Trim trees over roadway to at least 12 feet above ground level.					
Inspector Comment					

No Photos

LM Start	5.65	Rating **	C	Issue No.	91
LM End	5.65	Issue Type +	Ma	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.326981 °	38.326981 °
				-121.584711 °	-121.584711 °
DWR ID	DWR_RD0349_03_s_2018_91				
Comment Code					
T4 : Trim trees over roadway to at least 12 feet above ground level.					
Inspector Comment					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Reclamation District No. 0349 Sutter Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Sutter Slough	Left	6.50	11/08/2018 11/08/2018	David Julian

LM Start	5.69	Rating **	M	Issue No.	62
LM End	5.76	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.327531 °	38.328572 °
				-121.584874 °	-121.585393 °
DWR ID	DWR_RD0349_03_f _ 2017_62				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					

LM Start	5.71	Rating **	M	Issue No.	95					
LM End	5.71	Issue Type +	Ma	Location *	LS					
Category	Earthen Levee			GPS Latitude/Longitude						
				Start	End					
Item	Encroachments			38.327828 °	38.327828 °					
				-121.584960 °	-121.584960 °					
DWR ID	DWR_RD0349_03_f_2018_95									
Comment Code										
TR : Tree or limb										
Inspector Comment										
Remove down trees from land side slope										

LM Start	5.88	Rating **	M	Issue No.	92					
LM End	5.88	Issue Type +	Ma	Location *	LS					
Category	Earthen Levee			GPS Latitude/Longitude						
				Start	End					
Item	Vegetation			38.330110 °	38.330110 °					
				-121.584628 °	-121.584628 °					
DWR ID	DWR_RD0349_03_f_2018_92									
Comment Code										
V1 : Control annual grass and weeds on the levee slopes and easements.										
Inspector Comment										
Remove vegetation all the way down to land side toe										

* Location	** Rating	+ Issue Type
LS : Land Side N/A : Not Applicable	A : Acceptable N : Not Inspected/Rated	Ma : Maintenance Deficiency
WS : Water Side	M : Minimally Acceptable C : Corrected	Ob : Design & System Obsolescence
CR : Crown	U : Unacceptable A/W : Acceptable but Monitor & Maintain	En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

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Reclamation District No. 0349 Sutter Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Sutter Slough	Left	6.50	11/08/2018 11/08/2018	David Julian

LM Start	6.15	Rating **	C	Issue No.	63
LM End	6.15	Issue Type +	Ma	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.330856 °	38.330856 °
				-121.581075 °	-121.581075 °
DWR ID	DWR_RD0349_03_s_2018_63				
Comment Code					
T4 : Trim trees over roadway to at least 12 feet above ground level.					
Inspector Comment					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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